

**ABSTRACT**

An optical wiring substrate that enables positioning of light emitting elements and photodetecting elements with respect to optical waveguides to be readily carried out is provided. An optical wiring substrate 1 has a substrate 10. On the substrate 10, a plurality of recessed portions 12 are formed and optical waveguides 13 are formed between these recessed portions 12. In each recessed portion 12 is disposed a photodetecting and light emitting member 30 that is mounted onto an inserted portion 22 of a base member 20. The inserted portion 22 has reflecting surfaces 26 and 27 formed on the inclined surfaces, and optical paths of optical waveguides 13 are matched, via reflecting surfaces 26 and 27, with optical paths of photodetecting units 34 and light emitting units 37, disposed on the photodetecting and light emitting member 30.